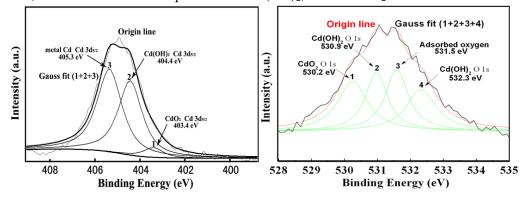
## Supporting Information for Cadmium Hydroxide Nanowires---New Ni-Cd battery Cathode Materials with High Capacity and Stability

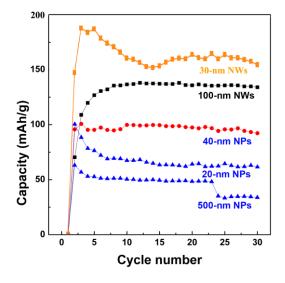
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**Figure S1.** XPS patterns of Cd(OH)<sub>2</sub> NWs charged fully performed on a PHI 5700 ESCA System, which confirm the compositions of Cd(OH)<sub>2</sub>, Cd and CdO<sub>2</sub>.



**Figure S2.** Charge-discharge cycle life at a constant current density of 30 mA/g of the as-obtained  $Cd(OH)_2$  materials with different morphologies and sizes.



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